S 614.7/ H2m 1976

Montana Department of Health and Environmental Sciences MONTHLY ACTIVITIES REPORT OF THE AIR QUALITY BUREAU

August 1976

STATE DOCUMENTS

1. Highlights

Establish a meteorological network in Kalispell area.

EPA and Rockwell quality assurance review.

Dispersion modeling for Northern Cheyenne redesignation under Prevention of Significant Deterioration.

Submitted a proposal for Phase II health study.

Glendive Hospital ordered to replace incinerator by Board of Health after hearing.

2. Ambient Air Quality Network

Standards Exceeded:

SO₂ - C-Hill, Anaconda, 8 violations MT 1-hr. std. Hiway Jct., Anaconda, 4 viol. MT 1-hr. std. Mill Creek RR Cross., Anaconda, 1 viol. MT 1-hr. Std. Post Office, Anaconda, 7 viol. MT 1-hr. std. Laurel E. Cenex, Billings, 31 viol. MT 1-hr. std. Kleffner Ranch, E. Helena, 1 viol. fed. 3-hr. std. Kleffner Road, E. Helena, 1 viol. fed. 3-hr. std.

Air Stagnation Advisories:

No Air Stagnation Advisories were issued during the month of August. Air quality remained generally good.

Laboratory Status:

Total determinations for the month 293 Total samples for the month 293

Developments:

Routine calibration, repair and maintenance of equipment in the state.

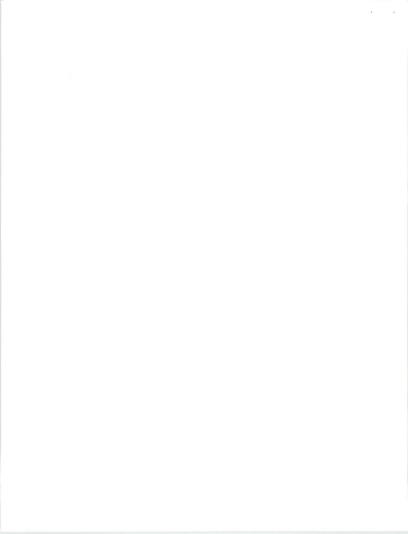
Hi-vol problems in Kalispell area corrected.

Performance tests made on hydrocarbon gas cylinders in Colstrip.

3. Permits and Tax Credits

Applications:

Joe Mayo & Son, Inc., asphalt plant, Prairie County Joe Mayo & Son, Inc., gravel crushing plant, Prairie Co. Carl Hanrath - Francis Mahon Deaconess Hospital, incinerator, Glasgow, Valley County



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Martel Properties, incinerator, Bozeman, Gallatin County
Joe Mayo & Son, gravel crushing plant, Prairie County
Buttrey Foods, incinerator, Bozeman, Gallatin County
Gus M. Albert, gravel crushing plant, Glacier County
Gus M. Albert, asphalt plant, Glacier County
Anton Patrick, paint booth with washer sprays, Butte, Silver Bow County
City of Lewistown, asphalt plant, Fergus County
Joe Mayo and Son, Inc., gravel crushing plant, Prairie County
Joe Mayo and Son, Inc., asphalt plant, Prairie County
Joe Mayo & Son, Inc., gravel crushing plant, Prairie County
Portable Pawers, Inc., asphalt plant, Prairie County

Approved:

Hilde Const. Co., Inc., gravel crushing plant, Fergus & Judith Basin Co. Gus M. Albert, asphalt plant, Blaine County
Gus M. Albert, gravel crushing plant, Blaine County
Hilde Const. Co., Inc., gravel crushing plant, Pondera County
Joe Mayo & Son, Inc., asphalt plant, Prairie County
Joe Mayo & Son, Inc., gravel crushing plant, Prairie County.
Martel Properties, incinerator, Bozeman, Gallatin Co.
Joe Mayo & Son, Inc., gravel crushing plant, Prairie County.
Gus M. Albert, gravel crushing plant, Glacier County
Gus M. Albert, asphalt plant, Glacier County
City of Lewistown, asphalt plant, Fergus County
Joe Mayo & Son, Inc., gravel crushing plant, Prairie County
Joe Mayo & Son, Inc., gravel crushing plant, Prairie County
Joe Mayo & Son, Inc., gravel crushing plant, Prairie

Tax Credits:

Work begun on Montana Dakota Utilities tax certification application on new scrubber.

4. Variance Status

Current Variances:

Anaconda County smelter, continuance granted, expires 9/24/76

New or Renewed Variances:

Anaconda Aluminum Co., Columbia Falls, F⁻ and particulate, renewal, expires 7/1/77 ASARCO, Inc., E. Helena, lead and zinc plant, renewal, expires 6/30/77

5. Enforcement Actions

Citations:

City of Havre, burning of old city dump, 8/3/76 Buttrey Foods, Havre, incinerator malfunction Anaconda Co., Anaconda SO₂ violation



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Notices of Violation:

Terra Asphalt of Montana, Billings, 16-2.14(1)-S1440 Public Utilities Dept. Billings, dust emissions K-Mart Foods, Inc., Billings, incinerators, 16-2.14(1)-S1420

6. Tepee Burners and Open Burning

Tepee Burner Status:

No. at Start 41 New Starts 0 Shutdowns 0 No. at End 41

Open Burning Permits:

Kalispell Office	25	Sanders County	60
Cascade County	5	Yellowstone Co.	22
Lake County	4	Rest of State	276
Missoula County	1	Total Permits	393

7. Source Tests Performed

Agency Source Tests

None

Non-Agency Source Tests:

Colstrip Unit No. 1, by John Yapuncich for Montana Power Co.

8. Field Investigations

Brand S Lumber, Boulder, plant inspection
Liberty County, Chester, dump, inspection
Diamond Asphalt, Chinook, inspection
Pfizer Taic, Dillon, inspection
Anaconda Co., Anaconda, smelter, obtaining data
Kanta Products, Three Forks, plant inspection
Cyprus Industrial, Three Forks, plant inspection
Townsend tepee burner, inspection
Silver City, tepee burner, inspection
Pack & Co., Kalispell, dust control
Continental Oil Co., Billings, opacity observation
Gauger Sand & Gravel, Billings, dust emissions



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9. Complaints

City of Havre, dust in alley, corrected Helena, street dust C & C Lumber, tepee burner, smoke Aronson Egg Farm, Rollins, odor, corrected Max Fisk, Harlowton, open burning John Breeding, Ekalaka, open burning, letter written

10. Data Processing Services

Program written for new hi-vol orifice curves

Ambient Data Summary:

Monthly summary of July air quality data attached.

Emissions Inventory Status:

No sources updated. Computer system complete. Semi-annual report sent to EPA.

Prevention of Significant Deterioration:

Modeling assistance started for environmental analysis conducted by Northern Cheyenne in their Class I redesignation proposal.

Modeling:

Modeling performed on Colstrip Units 3 and 4.

Meeting held in Great Falls discussing upcoming modeling for transportation plan.

11. Environmental Impact Statements

Agency Impact Determinations:

None

Other Agency EIS's Reviewed:

None



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12. Status of Studies, Contracts and Reports

Health Study Phase I, will begin on this phase in September Phase II - not yet approved. Cost proposal submitted Area Source Emission Inventory, will be started in September Air Quality Lab Manual, completed U.S. Plywood, particulate source test report 90% complete Floyd Bossard's contract extended until September 24. Quarterly air quality data and semi-annual emission inventory report sent to EPA Meteorological study, Col. Falls, proposed to start October 1. Quality assurance manuals, first copy complete Quality assurance policies, started Particulate Matter Projections by PEDCo, for Billings, complete

13. Schools and Training

None

14. Public Hearings and Meetings

Public Hearings:

Board of Health and Environmental Sciences, August 6, 1976
Anaconda Alminum variance renewal for plant at Col. Falls
NSPS/WESHAPS Rules adopted
Glendive Community Hospital, incinerator, ordered to submit
corrective plan by October 1
Anaconda Mining - variance renewal for smelter at Anaconda continued
ASARCO, Inc., variance request, granted
Report by AQB on particulate emissions from Anaconda Co. copper
smelter, Anaconda

Meetings Attended:

Collective bargaining, Helena State Air Shed Meeting, Missoula "Missoulian" reporter, Missoula Conference, trace metal analysis in coal, Butte Environmental education workshop Hoerner-Waldorf permit, Helena Col. Falls, vegetation study, Helena Anaconda Aluminum Company variance renewal, Helena Hoerner Waldorf ambient monitoring program EPA, NSPS/NESHAPS, Helena Ecological Cons. Services, North Central Montana Dept. Highways, Environmental Impact Group, Helena Environmental Sciences Division, Enforcement, Helena Anaconda Co. SO₂ emissions, Helena City-County Planning, transportation plant, Great Falls Emission testing and regulations, Helena Northern Cheyenne, Prevention of Significant Deterioration, Helena EPA and Cenex, Billings City-County Planning, Billings Transportation Planning, Billings

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Intra-Staff Meetings:

Staff meeting, Helena Staff reports for board meeting, Helena Legal Division, board agenda, Helena SO₂ standards, Helena

15. Public Information Requests

Rules - 10 Clean Air Act - 4 General - 9

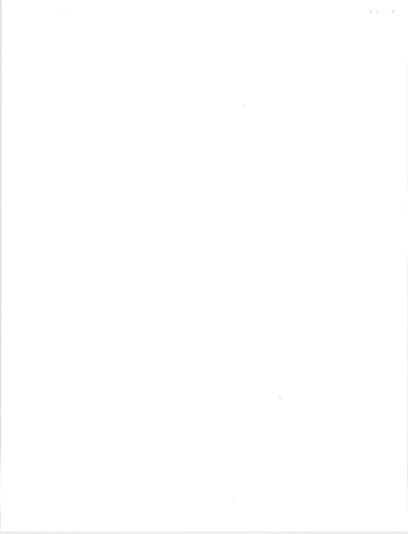
16. Fiscal Status

Grants Received:

None

Monthly Expenditures:

Program	Budget	August	Year to Date	Funds Remaining
0630	443,090	27,761	41,196	408,343
0631	74,400			74,400
0633	82,635	4,481	6,351	76,284



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July 1/1/6

Page 1 of 2

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ci	lote boostion	Curposi Bosta	Year-to Date	Familie , Ye ii	porte.	and a	Camentia
140	Unrhon Monoxide lith & S. Z/th Billings 27th & Montana Billings						Analyzer broken down Analyzer broken down
40	Bydrocarbons 27th & Montana Billings	3.90	7.80	30.00	2.830	7	
43	Laurel E Cenex Billings BN Colstrip	6.6n 3.50	6.60 3.50	6.60 3.50	1.615	3	
43	Meth. Hydrocarbo BN Colstrip	1.60	2.00	3.80	1.610	6	
43	Non-meth, Hydroc BN Colstrip	2.00	2.00	2.00	.007	6	
40	Nitrogen Dloxide 2/th & Montana Billings	0.11	0.11	0.11	0.033	7	
40	Ozone 77th & Hontana Billings	0.10	0.10	0.10	0.023	7	9 viol. fed. prim std.
143	Billings by Colstrip						prim std. Equipment broken dow

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× 3.	Site faretten	ne cent See h	1100 Too	Topostes. Year	14-11-11 -14-1	19.00.	Commercia:
147	East Stack East Helena	0.44	0.44	0.44	0.012	7	1 viol. MT 1-hr. sid.
	Microwave Last Helena	0.78	1.08	1.08	0.014	7	10 viol. HT
	Saddle Hountain East Helena	0.15	0.58		0.006	7	
	C-Hill Anaconda	1.85	2.54	2.54	0.018	7	19 viol, HT I-hr, std.
	Hiway Junction Anacomia	0.47	0.78	0.78	0.018	7	7 viol. HT 1-hr, std.
	Mill Cr RR Cross Anaconda	0.25	0.79	0.79	0.015	7	1 viol. HT 1-hr. std.
	Post Office Anaconda	0.72	0.72	0.72	0.008	7	14 viol. HT 1-hr. std.
	Pump House Anaconda	0.11	0.40	0.40	0.006	7	
140	27th & Montana Billings	0.05	0.15	0.15	0.006	7	
	Eaurel E Conex Billings	0.61	0.61	0.61		4	15 viol. MT 1-hr. std.
	Laurel Water Pit Laurel	0.50	0.50	0.50	0.015	2	3 viol, MT 1-hr. std.
143	Colstrip	0.00	0.02	0.02	0.000	7	
						- 12	

first mea-	Miscellaneous	Indicatory

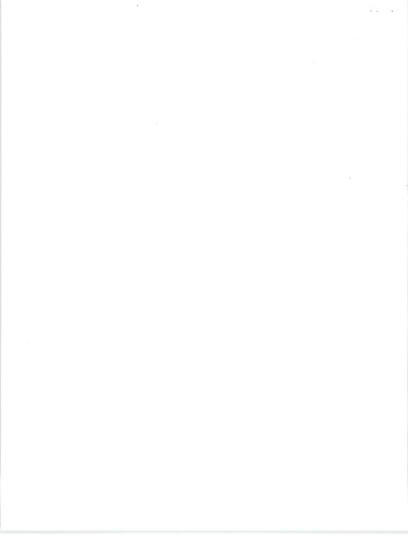
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1/4	DUSTFALL - Tons/ Hountain States Cascade Co.	13.27	1e 28.16	28.16-	16.60	7	
	Fire Station #1 Cascade Co.	14.89	37.73	37.73	19.49	7	
	FLUORIDE PAPERS			m./30 d			
142	S. Bow County	.660	1.750	1.750	1.17	6	
	tSE of Stauffer S. Bow County	5.420		4.520		6	
144	Dehiben's MT Box Flathead Co.	0.830	1.410	1.410	0.813	7	
	Teakettle #10 Flathead Co.	9.7/0	19.700	19.700	4.439	7	
	Glacier Park #1 Glac. Nat. Pk.	0.290	0.580	0.580	0.318	6	
	Glacier Park +2 Glac, Nat. Pk.	0.290	0.580	0.580	0.347	6	
	RANSAY WEST	nicrng	mis/sq.	:m./30 a	<u>y5</u>		No longer
	5. How County						running
	S. Bow County						to longer running
143	HcRae Rosebul County	0.0	0.0	0.0	0.0	7	r anni mi
	Teakettle #1 Flathead Go.	15,500	30.000	30,000	10.050	/	

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144	Teakettle Pú Flathead Co.	7.760	18.670	18,670	13.215	7	
	Anaconda South	4.330	8,600	8.600	4.987	6	
	Glacier Park of Glac. Nat. Pk.	0.440	0.720	0.720	0.429	7	
	Glacier Park "? Glac. Nat. Pk.	0.0	0.810	0.810	0.476	7	
140	SULFATION RATE -	in rogra	4,570	4.5/0	1,965	6	
	Yellow tone Co E of Laurel	0.560	3.670	3,620	1,281	,	
	Yellowstone Co. Hi-Ball Trucking	0.410	1,410	1.410	0./48	6	1
141	Yellowstone Co Stock Car Track Cuscade Co.	0.029	0.228	.243	.068	6	
	Phillips Rof. #1	0.083	. 333	.353	,118	6	
	Costade Co.	0.078	. 3117	. 399	.118	6	
147	Microsove Tower Jefferson Fo.	0.370	0.400	0.680	0.280	7	
163	Peer Lidge Co.	1,470	1,100	0.4%	0.513	6	Not sugning
1 11 3	tolstrip *_2ac *_istrip	n p	0.0	0.040	0.0		Not running



PORTIANA DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES

MONTHLY SUMWRY OF AIR PUBLITY DATA

July 1976

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per R	Site Location	Month	Year- to-late	Year Year	Year - to-tarre	Tongs of	Comments	AUCH	Dire Location	March.	Sour-	Roman a Year	to-faire	10.01	Connents			
3	Morton Residence	202	203	255	55.6	7	1 violation fed, sec, std.	142	Hisay Junction Seer Lodge Co.	76	119	110	37.7	7				
-	Warren Ranch Bio Horn Co.	146	146	146	24.9	7	100, 510, 500,		McKinley Res.	49	147	147	19.4	7				
	Lockwood School Billings	115	141	141	41.9	7			Microwave Jefferson Co.	49	84	84	21.1	7				
	KRHL Station Billings	47	106	106	29.8	7			212 Pacific St.	174	171	231	64.7	7				
	City Hall Billings	86	200	200	66.2	7					143	Lame Oror Rosebud Co.	26	37	37	9.5	5	
	Grand Ave. Sch. Billings	88	199	199	55.3	7				BII Rosehud Co.	64	104	129		7			
	Laurel Jr. High Yellow. Co.	50	108	108	30.9	7				McRae Rosebud Co.	32	86	86		7			
	28th St. Hest Yellow. Co.	1126	5398	5398	263.7	2							Lindsay (107312) Dawson County	17	69	60	13.7	7
- 1	Hospital Roof Great Falls	64	124	218 -	35.5	7			Ft. Peck McCone County	57	166	166	21.0	7				
	Fire Sta. #1 Great Falls	173	185	185	69.0	7	l violation fed. sec. std.		Broadus Powder Riv.Cn.	49	49	173	16.5	7				
	Tierney Res. S. Bow Co.	54 : 64	202 173	202	29,7	,			Poplar Ronsevelt Co.	33	173	87	21.9	7				
	S. Bow Gen. Hosp Butte Greeley School	101	285	368	93.7	,			Littlefield Hill Miles City	41	87 98	98	21.4	6				
	Butte Atkins	74	396	306	50.7	,			Scobey Suniels Cn. Glendive	40	130	130	34.2	7				
	Butte Richer Residence	29	30	54	16.4	,			Dawson County Lindsay (197319)	17	38	38	12.9	,				
1	S. Bow County	.,		"		ı ']		1	Pawson County	1	".	٫ " ا	17.5	Ι΄,	l			

AREA		HOR READING			GEOMETR	IC AVER.	
AD:T	Site Location	Current Month	Year-to	Running Year	Year-to Pate	The Con	Coments
144	High School Columbia Falls						Equipment broken
	Dehlhom Res. Kalispell	25	53	6B	14.7	7	
	Downard Res. Kalispell	125	234	234	88.9	7	
	Sverdrup Libby						Equipment broker
	Courthouse Missnula Cn.	139	386	386	77.2	7	
	Johnson Bell Fd. Missoula Co.	90	176	176	35.1	7	
	Frenchtown Missoula Co.	76	217	217	31.3	7	

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MX.H	Site Location	Current Month	tomate	Funnarea Year	feate co-fate	Sec. of Supplement	Contrent is
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